SOKOLOV, P.V.. kandidat fiziko-matematicheskikh nauk.

Applying the set compactness of functions to differential equations with discontinuous right side. Uch.zap.Penz.gos. ped.inst. no.2:47-60 '55.

(Differential equations)

SOKOLOV, P.V. (Penza)

Remarks on A.V. Pkhakadze and A.A. Shestakov:s article "Classification of the singular points of a first-order differential equation

unsolved with respect to the derivative. Mat. shor. 53 no. 4:541-543 Ap '61. (MIRA 14:5)

(Differential equations)
(Pkhakadze, A.V.) (Shestakov, A.A.)

OZHINSKIY, I.S.; SOKOLOY, P.V.; YUFA, B.Ya.; CHUMACHENKO, Z.N., red.
izd-va; BYKOZA, V.V., tekhn. red.

[How to search uranium ores]Kak iskat' uranovye rudy. Izd.2.,
ispr. i dop. Moskva, Gosgeoltekhizdat, 1962. 55 p. (MIRA 16:3)
(Prospecting) (Uranium ores)

SOKOLOV, P.V., dotsent, kand.ekonomicheskikh nauk

Militarist nature of the modern state-monopoly capitalism. Mor.
(MIRA 16:4)

sbor. 46 no.5:35-43 My '63.
(Capitalism)

(Militarism)

REMPEL', A.M.; SUKHOV, P.V.; KOPEYKIN, A.A., glavnyy red.; ROKHVARGER, Ye.L., zamestitel' glavnogo red.; VASYUTINSKAYA, A.A., red.; GARTSMAN, B.M., red.; ZAYONTS, R.M., red.; LUNDINA, M.G., red.; NOSOVA, Z.A., red.; PETROV, N.A., red.; RIVKIN, A.M., red.; ROMANOV, P.R., red.; SOKOLOV, P.V., red.; FEYN, Yu.E., red.; KOSYAKINA, Z.K., red.; KASIMOV, D.Ya., tekhn.red.

[Research on clay materials] Issledovanie glinistogo syr'ia. Moskva, Gosstroiizdat, 1963. 119 p. (Kuchino. Gosudarstvennyi nauchno-issledovatel'skii institut stroitel'noi keramiki. Trudy, no.22). (MIRA 17:3)

S/

ACCESSION NR AM4008935

BOOK EXPLOITATION

Sokolov, Petr Vasil'yevich (Candidate of Economical Sciences, Docent in the Department of Political Economy)

War and human resources (Voyna i lyudskiye resursy*), Moscow, Voyenizdat, 1961, 187 p. 20,000 copies printed.

TOPIC TAGS: military reserve, wartime mobilization, logistics, labor force, casualties, human resources

PURPOSE AND COVERAGE: This book examines the problem of human resources in war, which are an important indicator of the military potential of states and have an effect on the course and outcome of armed conflicts. The book throws some light on the human composition of the armed services, changes in the size of armies, training of military reserves in connection with the change in the materiel-technical base of war, with the development of rocket-nuclear weapons; the sources of human resources and also the factors affecting the capacity for military and labor mobilization of the populace are discussed. The book does not pretend to give an exhaustive answer to all these questions. On the basis of the experience gained in past world wars and analysis of contemporary circumstances certain problems of human resources in war are considered; the need for a detailed study of the econo-

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ACCESSION NR AM1008935

mic and human resources of the aggressive imperialistic states is underscored. book is written in the vernacular and is intended for the mass reader.

TABLE OF CONTENTS [abridged]:

Introduction - - 3

Ch. I. The armed services' requirements for human resources - - 8

Ch. II. The problem of the labor force - - 70

Ch. III. The use of human resources under wartime conditions - - 110

SUB CODE: AD

SUBMITTED: 06Sep61

NR REF SOV: 186

OTHER: 040

DATE ACQ: 27Feb64

Card 2/2

SOKOLOV, Petr Vladimirovich, detsent; PEYCH, N.N., retsensent; TSITSURA,
N.M., retsensent; SERGOVSKIY, P.S., redaktor; FEDOROV, B.M., redaktor;
KARASIK, N.P., tekhnicheskiy redaktor.

[Drying lumber] Sushka drevesiny. Meskva, Géslesbumisdat, 1955. 422 p. (Lumber--Drying) (MIRA 9:6)

SOKOLOV. Petr Vladimirovich; SERGOVSKIY, P.S., redaktor; BEL'CHENKO, N.I., redaktor izdatel'stva; SHITS, V.P., tekhnicheskiy redaktor

[Accelerated methods of drying wood; dry kilns and drying in hydrophobic liquids] Uskorennye sposoby sushki drevesiny; kamernaia sushka i sushka v gidrofobnykh zhidkostiakh. Moskva, Goslesbumizdat, 1956. 81 p. (MLRA 9:10)

1. Dotsent Lesotekhnicheskoy akademii im. S.M.Kirova (for Sokolov) (Lumber--Drying)

SERGOVSKIY, Pavel Semenovich, prof., doktor tekhn.nauk; CHUDINOV, B.S., retsenzent; SOKOLOV, P.V., red.; SIDEL'NIKOVA, L.A., red.izd-va; BACHURINA, A.M., tekhn.red.

[Hydrothermal treatment of wood] Gidrotermicheskaia obrabotka drevesiny. Moskva, Goslesbumizdat, 1958. 440 p. (MIRA 12:3)

1. Kafedra lesopil'no-strogal'nykh proizvodstv Lesotekhnicheskoy akademii im. S.M.Kirova (for Chudinov).

(Wood)

SOKOLOV, Petr Vladimirovich, dotsent; PEYCH, N.N., retsenzent; TSITSURA, N.M., retsenzent; SERGOVSKIY, P.S., red.; BEL'CHENKO, N.I., red.izd-va; KUZHETSOVA, A.I., tekhn.red.

[Drying of wood] Sushka drevesiny. Izd.2., perer. Moskva, Goslesbumizdat, 1960. 426 p. (MIRA 13:12)

(Lumber--Drying)

ENCLARED DESCRIPTION DESCRIPTION DE L'EXPENSION DE L'EXPENSION DE L'EXPENSION DE L'EXPENSION DE L'EXPENSION DE

VLASOV, Georgiy Dmitriyevich, prof., doktor tekhn.nauk; KULIKOV, Valentin Anatol'yevich, dotsent, kand.tekhn.nauk; RODIONOV, Sergey Vasil'yevich, dotsent, kand.tekhn.nauk. Prinimali uchastiye: SOKOLOV, P.V., dotsent, kand.tekhn.nauk; SAPOZHNIKOV, A.K., inzh.; NEKHAMKIN, N.O., red.; VOLOKHONSKAYA, L.V., red.izd-va; KORNYUSHINA, A.S., tekhn.red.

[Technology of the woodworking industries] Tekhnologiia derevoobrabatyvaiushchikh proizvodstv. Moskva, Goslesbumizdat, 1960. 566 p. (MIRA 13:9)

(Woodworking industries)

SOKOLOV, Petr Vladimirovich; SHORNIKOV, Yevgeniy Alekseyevich; GOLUBEVA, T.M., red.; VENTSEL', I.V., red.izd-va; BELOGUROVA, I.A., tekhn. red.

[Centralized control and automatic regulation of conditions in lumber drying kilns] TSentralizovannyi kontrol' i avtomaticheskoe regulirovanie rezhimov v lesosushil'-nykh kamerakh. Leningrad. No.1. 1963. 20 p. (Leningradskii dom nauchno-tekhnicheskoi propagandy. Obmen peredovym opytom. Seriia: Derevoobrabatyvaiushchaia promyshlennost', no.5)

(Lumber--Drying) (Automatic control)

KOBLIKOVA, Aleksandra Georgiyevna, dots., kand. tekhn. nauk;
KUZ'MINOV, G.P., dots., kand. tekhn. nauk, retsenzent;
CHUDNOV, B.S., dots., kand. tekhn. nauk, retsenzent;
SOKOLOV, P.V., dots., kand. tekhn.nauk, otv. red.;
BEZGODOVA, L.V., red.

[Hydrothermal processing of wood; calculations of kilns for drying lumber in superheated steam. Manual on course planning for the students of the faculty of the mechanical technology of wood] Gidretermicheskaia obrabotka drevesiny; raschet kamer dlia sushki pilomaterialev v srede peregretogo para. Rukovodstvo k kursovomu proektirovaniiu dlia studentov fakuliteta mekhanicheskoi tekhnologii dre ssiny. Leningrad, Vses. zaochnyi lesotekhn. in-t, 1963. 82 p. (MIRA 17:7)

KOBLIKOVA, Aleksandra Georgiyevna, dots., kand. tekhn. nauk; CHUDNOV, B.S., dots., kand. tekhn. nauk, retsenzent; SOKOLOV, P.V., dots., kand. tekhn. nauk, otv. red.

[Hydrothermal processing of wood; systems for intensive drying of lumber. Lecture for students of the Faculty of the Technology of Mechanical Wood Processing] Gidrotermicheskaia obrabotka drevesiny; rezhimy dlia intensivnoi sushki pilomaterialov. Lektsiia dlia studentov fakul'teta mekhanicheskoi tekhnologii drevesiny. Leningrad, Vses. zaochnyi lesotekhn. in-t, 1964. 44 p. (MIRA 18:3)

SERGOVSKIY, lavel Semenovich; STERLIN, 1.34. kand. tekhn. nauk; BAGDATYEV, Ye.Ye., inzh.; EAKHAOVSKIY, Leonid Vladimirovich, dots., kand. tekhn. nauk; SOKOLOV, F.V., red.

[Equipment for the hydrotherrol processing of wood] Oborudovanie gidrotermicheskoi obrabotki drevesiny. Mc-skva, Lesnaia promyshl., 1964. 326 p. (MIR4 18:1)

1. Kafedra lesopil'no-stromel'nyzh proizvodstv leningradskoy lesotekhnicheskoy elektril im. Kirova (for Sakhnovskiy).

SOKOLOV, P.V.; ZERNOV, V.A., spets. red.; STOGOVA, T.I., red.

[Technical and economic indices of lumber kilns] Tekhniko-ekonomicheckie pokazateli lesosushil'nykh kamer. Moskva, TSentr. nauchno-issl. in-t informatsii i tekhniko-ekon. issledovanii pe lesnoi, tselliulozno-bumazhnoi, derevo-obrabatyvaiushehei promyshl. i lesnomu khoz., 1964. 29 p. (MIRA 18:5)

1. TSentral'nyy nauchne-issledevatel'skiy institut teknnicheskoy informatsii i tekhniko-ekonomicheskikh issledevaniy po lesnoy, tsellyulozne-bumazhnoy, derevoobra-batyvayushchey promyshlennosti i lesnomu khozyaystvu (for Stogova).

SOKOLOV, Pear Michimirovich; FILIFFOV, Yu.M., inzh., retsenzent;

SENOTURIY, P.S., red.

[Designing drying and heating machines for wood] Proektirovanie sushil'nykh i nagrovatel'nykh ustanovok dlia drevesiny.

Moskva, Lesnaia promyshlennost', 1965. 330 p.

(MIRA 18:9)

POZNAYEV, Aleksandr Petrovich; SOKOLOV, P.V., red.

[Measurement of wood moisture; electrical methods and apparatus] Izmerente vlazhnosti drevesiny; elektricheskie metody i pribory. Moskva, Lesnaia promyshlenmostische (MIRA 18:3)

(MIRA 18:3)

SOKOLOV, P.V.; BOGDANOV, Ye.S.; KRECHETOV, I.V.; BAGDAT'YEV, Ye.Ye.; MARATSUTS, L.S.

Results of comparative testing of automatic systems for the drying of wood. Der. prom. 14 no. 12:3-4 D '65. (MIRA 18:12)

SAMARIN, A.M., otvetstvennyy redaktor; SOKOLOV, P.Ye., redaktor; KHABAKHPASHEV, A.A., redaktor; GOSTEV, K.I., redaktor; PRONOV, A.P., redaktor; CHERNOV, A.N., redaktor izdatel stva; SOMOREV, B.A., tekhnicheskiy redaktor

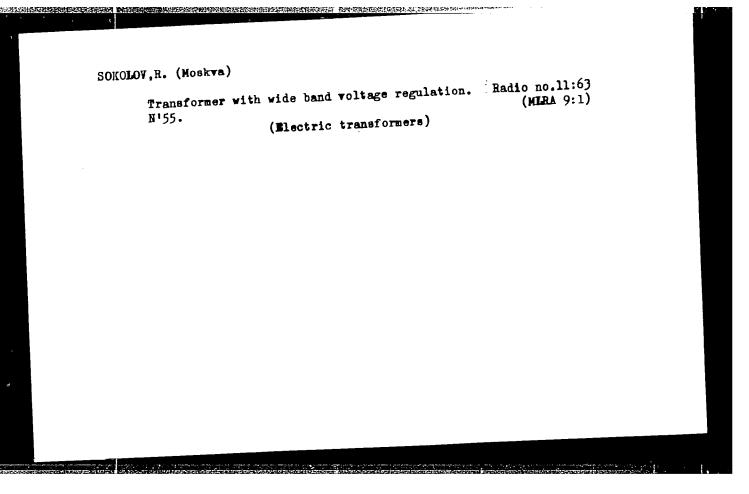
[Continuous casting of steel] Nepreryvnaia razlivka stali; 17-19 oktiabria. Moskva. Izd-vo Akademii nauk SSSR, 1956. 299 p. (MLRA 9:7)

1. Vsesoyuznaya konferentsiya po nepreryvnoy razlivke stali, 1st, 1955. 2. Chlen-korrespondent AN SSSR (for Samarin) (Steel--Metallurgy) (Continous casting)

TROSHIN, P. [Troshyn, P.]

We take on increased obligations. Sil'.bud. 11 no.6;3-4 Je '61.
(MIRA 14;7)

1. Predsedatel' soveta Nikolayevskogo oblastnogo mezhkolkhozstroya.
(Nikolayev Province—Construction industry)
(Precast concrete)



9,4160 24.3500 (1137,1138, 1395) S/048/61/025/003/025/047 B104/B214

AUTHORS:

Tolstoy, N. A. and Sokolov, R. A.

TITLE:

Luminescence of thallium chloride single crystals

PERIODICAL:

Izvestiya Akademii nauk SSSR. Seriya fizicheskaya,

v. 25, no. 3, 1961, 375-376

TEXT: This paper was read at the Ninth Conference on Luminescence (Crystal Phosphors) held in Kiyev from June 20 to June 25, 1960. The spectral composition and the intensity of luminescence of single crystals of thallium chloride were studied after different treatments of the crystals which were bred by the authors themselves. The luminescence was excited by light of wavelength 365 mm at the temperature of liquid nitrogen; the measurement of the specimens was done in a helium atmosphere. It turned out that thallium chloride has three luminescence bands: 1) a blue band with the maximum at about 460 mm (Fig. 1, Curve 1); 2) an orange band with the maximum near 620 mm; 3) a dark-red band with the maximum at 740 mm. The blue band appears immediately after breeding; the orange band appears after plastic deformation (Fig. 1, Curve 2),

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Luminescence of thallium...

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and the dark-red band after a heat treatment of the specimens in a pure He atmosphere (Fig. 1, Curve 3). Long exposure to ultraviolet light ($\lambda = 365 \text{ mm}$) at temperatures lower than -150°C did not lead to any remarkable change in luminescence. At higher temperatures, the intensity of the whole spectrum decreased. In this case, the blue luminescence was extinguished more quickly than the luminescence of longer wavelengths (Fig. 1, Curve 4). Measurements of the intensity of luminescence I in the maximum of the blue band as a function of the time of exposure to light of wavelength 365 mm showed that I decreases hyperbolically with an increase of t according to the rule I = $I_{\rm c}/(1+{\rm At})$. Here, I is the

initial intensity and A a constant depending on the temperature and intensity of irradiation. By a parallel measurement of the light transmittance of the Hg line with $\lambda = 436\,\mathrm{m}\,\mu$, it was found that in this spectral range the transmittance after the exposure does not change markedly (Fig. 2). Therefore, the weakening of the observed luminescence cannot be explained as a "filter effect". The decrease of intensity on exposure is a reversible process: By aging the exposed specimen in the dark, luminescence is restored almost completely. The restoration of luminescence

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Luminescence of thallium...

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is accelerated at higher temperatures. It can be assumed that the lattice defects are the centers of blue luminescence. The orange luminescence band with its maximum near 620 mm results from mechanical defects (distance of the content of the

defects are the centers of blue luminescence. The orange luminescence band with its maximum near 620 mm results from mechanical defects (dislocations); this agrees with assumptions made in other paper. The dark-red band is evidently caused by the impoverishment of the crystals in chlorine. Possibly an electron from the escaped chlorine atom fills this place and forms an F-center. There are 2 figures and 3 references: 1 Scviet-bloc and 1 non-Soviet-bloc. The reference to the English-language publication reads as follows: Randall I. T.. Trans. Faraday Soc., 35, 6 (1939).

10 436 450 Pinc. 2

Card 3/4

THE CONTROL OF THE PROPERTY OF

SOKOLOV, R.I.; ROTMAN, V.K.

Position of hydrothermally altered effusive rocks in the geological structure of the Tetyukhe region. Sov.geol. 4 no.5:138-142 My 161. (MIRA 14:6)

1. Vsesoyuznyy nauchno-issledovatel'skiy geologicheskiy;institut. (Tetyukhe region-Rocks, Igneous)

PERSONAL PROPERTY OF THE PROPERTY OF THE PERSON OF THE PER

SOSNINA, M.I.; ZHAMOYPA, A.I.; SOKOLOV, R.I.; PODGORNAYA, N.S.

Paleozoic sediments of the massif of the Zarod Mountain (Maritime (MIRA 18:7))

Territory). Trudy VSRGEI 93:153-159 '64.

NETHOROSHEV, V.P.; KHOREVA, B.Ta.; EHISAMETDINOV, M.G.; BEGDAHOV.

K.G.; SHILIN, D.M.; LYZENITSKAYA, I.V.; BEGDAW, R.N.

Nikolai Nikolaevich Kurek, 1963; n obitiary. Zap. Vaes.

min. ob-va 93 no. 2:246-247 164.

(MIRA 17:6)

SOKOLOV, R.V. (Vinnitea)

On the content of "social hygiene." Sov.zdrav. 18 no.11:58 '59.

(PUBLIC HRALTH)

SOKOLOV, R.V.

Development and calculation of a mechanized system for servicing the production areas of a mechanical shop.

Trudy LIEI no.55:26-40 *65.

(MIRA 18:11)

Merces of our times. Metallurg 8 no.4:34-35 Ap '63. (MIRA 16:3)

1. Literaturnyy sotrudnik gazety "Chelyabinskiy metallurg".

(Iron and steel workers)

l. Neshtatnyy korrespondent zhurno	la "Metallurg."

SOKOLOV, S.; ORLOV, I.

Meet Kropachev. Metallurg 9 no.11:19-20 N '64. (MIRA 13:2)

1. Neshtatnyy korrespondent zhurnala "Metallurg" (for Sokolov).

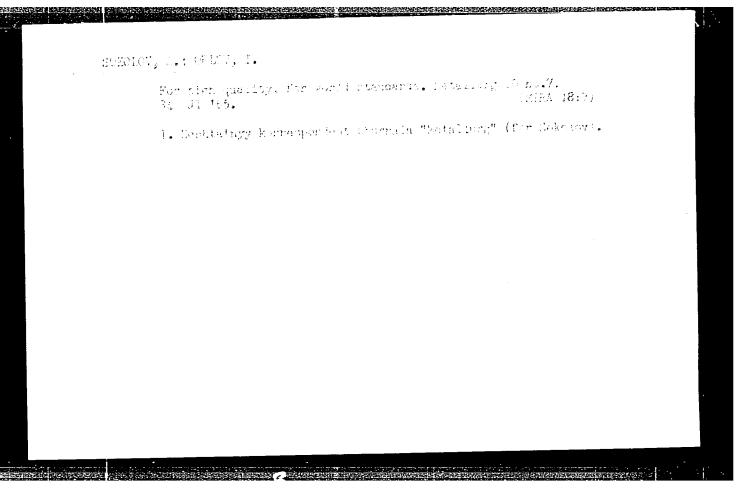
2. Starshiy inzh. otdela organizatsii truda Chelyabinskogo metallurgicheskogo zavoda (for Orlov).

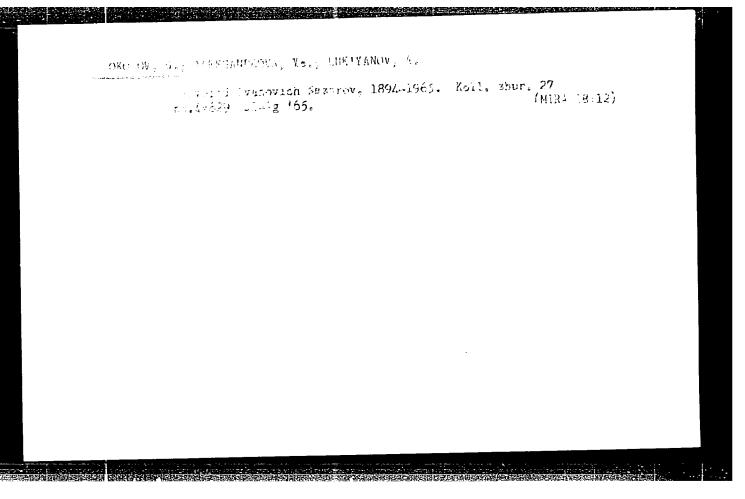
Strength of teamwork. Metallurg 8 no.12:29-30 D '63.

(MIRA 17:4)

1. Sotrudnik redaktsii gazety "Chelyabinskiy metallurg" (for Sokolov). 2. Starshiy inzhener otdela tekhnicheskoy informatsii Chelyabinskogo metallurgicheskogo zavoda (for Privalov).

grand to the second of the second of the	One day in the year. Metallurg 9 no.2:22-23 F '64. (MIRA 17:3)
	1. Neshtatnyy korrespondent zhurnala "Metallurg".

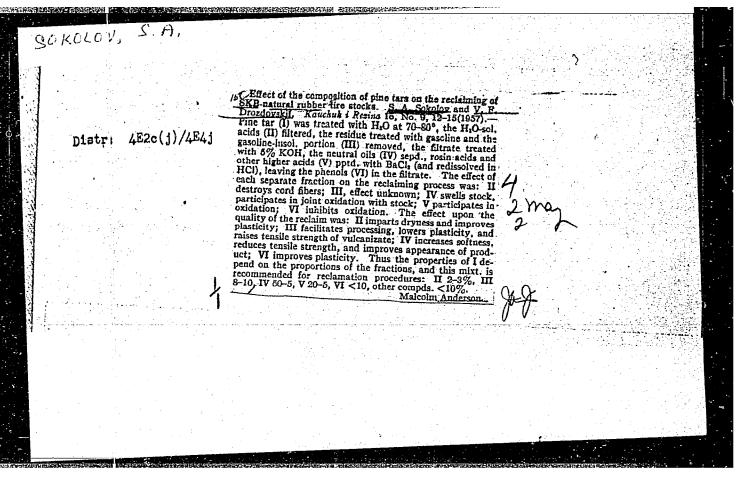


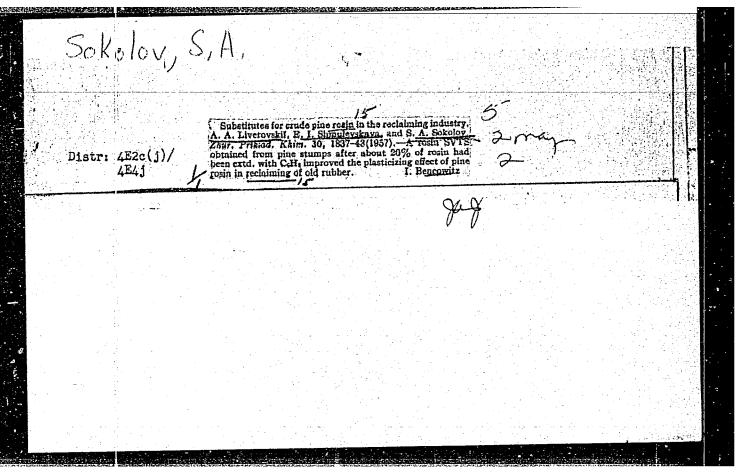


KOZLOV, P. (g. Rovno); SOKOLOV, A.; CHERKASOV, N.; YERKIN, M.; SHCHEGLOV, A., instruktor; BONDAR', N.; MORSHCHI'IN, S., inzh. (Kazan'); SOKOLOV, S.; BARINOVA, Z., inzh.

Readers relate, advise and criticize. Sov. profsoiuzy 18 no.18:32-33 S '62.

1. Neshtatnyy korrespondent zhurnala "Sovetskiye profsoyuzy" (for Kozlov). 2. Rukovoditel lektorskoy gruppy oblastnogog soveta professional nykh soyuzov, (for Sokolov). 3. Rabotnik ob"yedineniya "Sel'khoztekhnika", Tlumachskiy rayon, Stanislavskoy obl. (for Cherkasov). 4. Zaveduyushchiy Chelyabinskoy yuridicheskoy konsul'tatsiyey professional'nykh soyuzov (fc. Yerkin). 5. Rayonnyy komitet professional nogo soyuza zheleznodorozhnikov Karagandinskogo otdeleniya Kazakhskoy zheleznoy dorogi (for Shcheglov). 6. Sekretar' postoyanno deystvuyushchego proizvodstvennogo soveshchaniya tsentral'nykh remontnykh masterskikh tresta "Ukrgazneftestroy", Kiyev (for Bondar'). 7. Zaveduyushchiy neshtatnym otdelom truda i zarabotnov platy pri Kalininskom oblastnom komitete professional nogo soyuza rabochikh stroitel'stva i promyshlennosti stroitel'nykh materialov (for Sokolov). 8. Krasavinskiy l'nokombinat, g. Krasavino, Vologodskoy obl. (for Barinova). (Labor laws and legislation) (Trade unions) (Russia-industries)





SOV/138-59-4-8/26

AUCHORS: Drozdovskiy, V.F., Sokolov, S.A. and Dogadkin, B.A. The Effect of Sulphur-Containing Derivatives of Caroazole on the Regeneration of Rubbers (Sliyaniye serosoderzhenschikh proizvodnykh karbazola na protsess regeneratsii TITIE:

PERIODICAL: Kauchuk i Rezina, 1959, Nr 4, pp 29-31 (USSR) ABSTRACT: The addition of small quantities of activators shortens

the time of regeneration of rubbers and also makes it possible to use smaller quantities of plasticizers. Various sulphur-containing compounds such as mercaptans, zinc salts of mercaptans and alkyl phenol sulphides are used as activators during the regeneration of natural and as activators during the regeneration of natural and synthetic rubber vulcanisates. The Polish patent specification 35298 (1953) (Ref 6) mentions the use of a mixture of mercapto-anthracene and mercapto-carbazole. The effect of these compounds on the process of regeneration and on the vulcanization process of a mixture of SKB and NK rubbers was investigated. The rubbers were regenerated by heating them for five hours at 180 C and tested according to the standard for regenerated tyre rubbers GOST 3550-54. During the test the product obtained

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SOV/138-59-4-8/26

The Effect of Sulphur-Containing Derivatives of Carbazole on the Regeneration of Rubbers

by interacting carbazole with sulphur monochloride and morpholine disulphide was used (Table 1). Literature data (Ref 7) indicate that morpholine disulphide itself acts as vulcanizing agent and also as a vulcanization accelerator. Experiments were carried out to test the effect of the product obtained by the interaction of carbazole and sulphur monochloride on the vulcanization process of natural rubber at 145°C. Results indicated that this product also acts as vulcanizing agent and vulcanizing accelerator, but is less effective than morpholine disulphide. 3-mercapto carbazole was prepared according to data given earlier (Ref 8) and its effect compared with that of "Renatsit" II (Table 2). Results showed that 3-mercapto carbazole is more active than trichlorothiophenol ("Renatsit" II). The activity of 3-thiocyanate carbazole and x,3-dithiocyanate carbazole was also tested (Table 3),

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The Effect of Sulphur-Containing Derivatives of Carbazole on the Regeneration of Rubbers

and it was shown that purified 3-thiocyanate carbazole was equally effective as "Renatsit" II. The x,3-dirhod-anate carbazole, however, was unsatisfactory. (Table 4). The authors concluded that the 3-mercapto carbazole and 3-rhodanate carbazole are satisfactory compounds to be used during the regeneration of rubbers, and their action is analogous to that of mercaptans. There are 4 tables and 10 references, 8 of which are English, 1 Soviet and 1 Polish.

ASSOCIATION: Nauchno-issledovatel'skiy institut shinnoy promyshlennosti (Tyre Industry Research Institute)

Card 3/3

DROZDOVSKIY, V.F.; LAVROVA, T.V.; SOKOLOV, S.A.

Effect of carboxylic acid anhydrides on the rubber reclaiming process.

Kauch.i rez. 20 no.3:33-35 Mr '61. (MIRA 14:3)

1. Nauchno-issledovatel'skiy-institut shinnoy promyshlennosti.
(Anhydrides) (Rubber, Reclaimed)

DROZDOVSKIY, V.F.; SOKOLOV, S.A.; SHOKHIN, I.A.; EYTINGON, I.I.

Activators of rubber reclaiming process. Kauch. i rez. 20 (MIRA 15:1)

no.12:22-25 D 161.

l. Nauchno-issledovatel skiy institut shinnoy promyshlennosti. (Rubber, Reclaimed)

3/138/62/000/001/007/009 A051/A126

AUTHORS:

Krivunchenko, N.G.; Kolkhir, K.F.; Zvereva, N.I.; Dmitriyeva,

Ye.V.; Drugovskaya, M.N.; Sokolov, S.A.

TITLE:

The use of gas-producing resins in rubber reclaiming

PERIODICAL: Kauchuk i rezina, no. 1, 1962, 52 - 53

TEXT: The disadvantages of dry-distillation of pine tars, for use as softeners in rubber reclaiming are non-uniformity and high cost. In the attempt to find new resins for this purpose, gas-producing ones proved to be the most successful. The Chekhov Rubber Reclaiming Plant developed the composition of a resin and a technology of rubber reclaiming, using the product of the Izhevsk Plant in 1958. This product has the following advantages: 1) Uniformity in group composition of the softener, leading to improved physico-machanical properties of the reclaimed rubbers. 2) Reduced production cost of the reclaimed rubber. 3) Increased capacity output of the autoclaves due to a shorter rubber devulcanization process. 5) Improved receiving and storage methods of the resin, eliminating the use of wooden barrels. The Chekhov Recovery Plant produced 6.5 thousand tons of re-

claimed rubber in 1959. In 1960, the Recovery Plant consumed 2,000 tons of resin. There is 1 table.

ASSOCIATION: Chekhovskiy regeneratnyy zavod (Chekhov Recovery Plant)

SOKOLOV, Sangey Aleksandravich; MUN'KIN, Veniamin Borisovich; BOGKTOVA, V.S., Ped.

[Equipment and systems for the remote control of lighting by operator stations] Apparaty i sistemy telemekhanizirovannogo upravleniia operatorskim osveshcheniem. Moskva, Iskusstvo, 1965. 234 p. (MIRA 18:7)

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Boxcolov, S A

AUTHORS:

TITLE:

Mikhaylov, M. I., Sokolov, S.A.

Protection against direct lightning strokes of reinforced-concrete communication-line poles. (Zashchita

zhelezobetonnykh opor lininiy svyazi ot pryamykh

udarov molnii).

PERIODICAL: "Elektrosvyaz:" (Telecommunications), 1957, No.4, April, pp. 67 - 74 (U.S.S.R.)

ABSTRACT:

The authors give results of experiments undertaken by TsNIIS at the proving grounds in Golitzyn in 1955. The results obtained may be given as follows: reinforced concrete poles can be used as a lightning conductor without special earthing systems. Measurements showed that their resistance is 20 to 70 ohms, while the soil resistivity is of the order of 300 ohm/meter. From theoretical considerations, no excessive temperature rise of armature, with subsequent damage to the concrete, is to be expected. This was proved experimentally on poles subjected to current pulses up to 60 000 amps. Experiments have also shown that damage to the concrete occurs for every lightning stroke. The breakdown occurs at voltage pulses of 33 - 34 kV with corresponding current pulses of 5000 amps or higher. For very large currents (50 000 to 60 000 amps) disintegration of concrete should not be unexpected, especially in the

MIKHAYLOV, M.I., doktor tekhnicheskikh nauk, professor; NIKOL'SKIY, K.K., inzhener; RAZUMOV, L.D., inzhener; SOKOLOV, S.A., inzhener.

Protecting interurban underground communication cables from lightning. Vest. sviazi 17 no.3:8-10 Mr '57. (MIRA 10:4)

1. Nachal'nik laboratorii TSentral'nogo nauchno-issledovatel'skogo instituta svyazi (for Mikhaylov).

(Electric cables) (Lightning protection)

RYABKOVA, Ye.Ya., kand.tekhn.nauk; BAZELYAN, E.M., inzh.; SOKOLOV, S.A., inzh.

Deformation of underground communication cables due to lightning discharges. Izv.vys.ucheb.zav.; energ. 2 no.9: 38-42 S 159. (MIRA 13:2)

1. Moskovskiy ordena Lenina energeticheskiy institut. Predstavlena kafedroy tekhniki vysokikh napryazheniy.
(Electric lines, Underground) (Lightning)

SOV/106-59-6-9/14 AUTHOR: Sokolov, S.A.

Reduction of the Earth Resistance in Rock Localities and TITLE:

in Regions of Ever-Frozen Ground (O snizhenii

soprotivleniy zazemleniy v skal'nykh mestnostyakh i v

rayonakh vechnoy merzloty)

PERIODICAL: Elektrosvyaz', 1959, Nr 6, pp 65-70 (USSR)

ABSTRACT: The article consists of two parts: 1) a theoretical

investigation and experiments on laboratory models;

2) results of experimental field work.

The equipotential surfaces of a tubular earthing rod can be represented by ellisoids of revolution (Fig 1). If the ground is cut out to a depth

$$z_{\beta} = u = \sqrt{a^2 + \ell^2}$$

(symbols as shown in Fig 1), then the lines of current flow will not be distorted and the total resistance of the earth $R_{\rm H}$ will be

$$R_{H} = R_{1} + R_{2} = \frac{1}{2\pi \ell} \left[\rho_{H} \ln \frac{2}{a_{o}} + (\rho_{em} - \rho_{H}) \frac{1}{2} \ln \frac{\sqrt{\ell^{2} + a^{2}} + \ell}{\sqrt{\ell^{2} + a^{2}} - \ell} \right]$$

Card 1/5 (4)

SOV/106-59-6-9/14

Reduction of the Earth Resistance in Rock Localities and in Regions of Ever-Frozen Ground

where R_1 is the resistance of the replaced layer, R_2 is the resistance of the remaining earth, ρ_H is the specific resistance of the hole material, ρ_{CM} is the specific resistance of the earth. This relationship is deduced from Ollendorf's work "Currents in the Earth", Ref 1. Fig 2 shows the relationship between $\xi = \frac{R_H}{R_{CM}}$ and $\alpha = \frac{\rho_{CM}}{\rho_H}$ and α_T for $\ell = 2.5$ cm;

R_{Cm} is the resistance of the earth before the hole is made. Changing the diameter of the tube within the limits 4 to 7 cm has little effect on the value of ξ . Fig 2 shows that 1) increasing a is effective up to 2.5 - 3 m only; 2) reduction of the specific resistance ρ_H of the filled-in material is useful over a limited range (up to $\alpha = 5 - 10$). Thus, the use of a large quantity of good-conducting material around the earth point is wasteful. Experiments on models in the Central Scientific Research Communications Institute confirmed the theoretical results. The experiments are described and the results tabulated in Table 1. The results

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SOV/106-59-6-9/14

Reduction of the Earth Resistance in Rock Localities and in Regions of Ever-Frozen Ground

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indicate that the earth resistance can be reduced 2.5 to 3 times by making a zone with a low specific resistance round the earth point. The hole should have a radius 1.5 to 2 m and a depth equal to the length of the tube in the ground. The hole is filled with a material having a specific resistance 5 to 10 times lower than the specific resistance of the ground, and the tube is driven into the material. Experimental earths were set up at a number of places (Skovorodino and others). The earths used various quantities of common salt (8 - 40 kg) and some of the earths were processed by Sanick's method, using CuoFe(CN)& gel. The results showed that the resistances of all the earths, which had the same initial resistance but different amounts of salt, changed by approximately Electrodes processed by Sanick's the same amount. method after working at low temperatures for several months acquired high resistance values, approximating to the values of the unprocessed earths. Investigation on models in a cold chamber show that the gel in the earth The ground decomposed and was destroyed by water.

Card 3/5

SOV/106-59-6-9/14

Reduction of the Earth Resistance in Rock Localities and in Regions of Ever-Frozen Ground

temperature has a great effect on the earth resistance. The resistance of sand with 3.7% moisture content increased eight-fold when the temperature fell from 0 to 8 °C. In regions where the ground is always frozen, there is a stable temperature (mean value -1.5°C) at depths below 2.5 to 3 m. Above this depth, seasonal temperature variations giving temperatures very much below -5°C occur. Table 2 gives monthly variations in temperature for various depths at Skovorodino, Amurskaya Oblast'. Tables 3 and 4 show the effects of snow layers on ground temperature. The temperature is also strongly affected by vegetation, particularly mosses. Thus, when installing earths, the temperature regime of the ground should be investigated. Best results are achieved by

Card 4/5

SOV/106-59-6-9/14

Reduction of the Earth Resistance in Rock Localities and in Regions of Ever-Frozen Ground

installing the earth at the bottom of natural or

artificial water beds.

Card There are 4 figures, 4 tables and 5 references, of which 3 are Soviet, 1 Scandinavian and 1 German. 5/5

SUBMITTED: September 25, 1958

CIA-RDP86-00513R001652020011-3 "APPROVED FOR RELEASE: 08/25/2000

05377

sov/106-59-8-9/12

AUTHOR:

Sokolov, S.A.

TITLE:

The Probability of Damage by Lightning to Subterranean

在一个人,我们也是是我们的,我们就是我们的,我们就是我们的,我们就会没有的人,我们就会没有的人,我们就是我们的人,我们们是我们的人,我们就是我们的人,我们就是这

Cable Lying Alongside a Wood

PERIODICAL:

Elektrosvyaz^c, 1959, Nr 8, pp 67 ~ 75 (USSR)

ABSTRACT: A subterranean cable in the centre of a wood is just as liable to lightning damage as one situated in an open field, but a cable running in the vicinity of a wood obtains a degree of protection from the trees at the edge of a wood (Figure 1). The edge trees give a protection zone in a manner similar to lightning conductors. A.A. Akopyan (Ref 1) has established the dimensions of the protection zone of lightning conductors on the assumption that not one strike out of a 1 000 strikes will fall in the unprotected zone. The greatest radius of the protection zone on the Earth's surface for rod lightning conductors is r = 1.5h, where h is the height of the lightning

conductor. The author describes the development of a lightning flash and the methods in which damage can result to the cable.

Card.1/7

05377

SOV/106-59-8-9/12
The Probability of Damage by Lightning to Subterranean Cable Lying Alongside a Wood

As the lightning leader approaches the earth, charges move through the earth to the point undermeath the leader. The instant the leader reaches the earth and the reverse strike starts the potential of this point can be so high that an electric arc occurs between the point and the cable. The arc is able to cross a distance given by:

$$y = 1.1 \sqrt{\frac{i0}{e_0}}$$
 (1)

where O - the specific resistance of the earth, ohm - m,
i - the lightning current, kA,

i - the lightning current, kA,

e the critical electric field strength in the
earth at which a rupture occurs, kV/m.

Table 1 shows the relationship between e_0 and ρ . A calculated example ($\rho=1$ 000 ohm - m, i=250 kA) shows that the maximum value of y_{max} is of the order

Card2/7

05377

SOV/106-59-8-9/12. The Probability of Damage by Lightning to Subterranean Cable Lying Alongside a Wood

of 20 m. Thus, lightning strikes more than y from the cable will not cause arcing. This does not, however, mean that no damage to the cable will result. The lightning current is an aperiodic wave of 20 to 100 µs. When such a current wave flows in a cable sheath, a potential difference between the sheath and the conductors arises and this potential may puncture the insulation. Table 2 shows the sheath current amplitude i which will cause damage to the cable with an insulation breakdown strength of 2 000 V.

The relationship between y and io, as given by Sunde (Ref 4), is:

$$i = i_0 \frac{\ln 1/\gamma a}{\ln(1/\gamma y + 1)}$$
 (2)

Card3/7

05377 **SOV/10**6-59-8-9**/1**2

The Probability of Damage by Lightning to Subterranean Cable Lying Along ide a Wood

where $\gamma \approx 0.08/\sqrt{\rho}$ is the "propagation" constant of the lightning current along the sheath, 1/m, and is the radius of the cable, m. Within some distance $y_1 < y_{max}$ from the cable, damage is produced by an electrical arc to the cable; also for lightning strikes further than y_1 , damage occurs, without an arc, only when the current exceeds the value in (although arcing may occur). The author then shows that the total number of cases in which a subterranean cable is damaged by lightning in the

$$n = 2qNS \int_{0}^{Y} e^{-Ki} dy = 2qNS \left(\int_{0}^{X_{1}} e^{-Ki} dy + \int_{1}^{X_{1}} e^{-Ki} dy \right)$$
 (5)

Card4/7

05377 sov/106-59-8-9/12

The Probability of Damage by Lightning to Subterranean Cable Lying Alongside a Wood

where q = 0.1 - the number of lightning strikes per km²

- the length of the cable (m),

- is the number of stormy days per year

in the locality,

Y - is the maximum distance from cable at which a lightning strike can cause damage to the cable,

- is the lightning current amplitude,

(0,y₁) - is the distance from the cable in which

 (y_1,Y) - the space interval from the cable in which damage will occur without arcing.

Integration of Eq (5) gives:

 $n = 2qNS[Y e^{-KI} + K]^{1} y e^{-Ki}di + K$ y $e^{-Ki} di$ (6)

Card 5/7

05377

sov/106-59-8-9/12

The Probability of Damage by Lightning to Subterranean Cable Lying Alongside a Wood

where i is the value of the current at y_1 as found from Eqs (1) and (2), I is the maximum possible lightning current. Letting the cable be at a distance y = 1 from the edge of a wood and taking 1 < 1.5h (Figure 2), the author shows that probable number of cases of cable damage is given by Eq (9), which is shown graphically in Figure 3 as a function of h (for P = 800 ohms). Table 3 gives the optimum distance of the cable from the wood for various values of P = 800 and P = 800 out that these formulae do not take into account the influence of the tree roots. In practice, the distance given in Table 3 should be increased by the length of the roots.

The author next investigates the probability of damage to a cable buried along a path in a wood and shows that the maximum width of a strip protected by the trees is 7h; this assumes that the locality is level and the trees are not lower than 6 to 8 m high. Finally, the author

Card6/7

05377

The Probability of Damage by Lightning to Subterranean Cable Lying

investigates the effect of single trees or other high objects near the cable and the effect of nearby overhead communication lines near the cable on the probability of damage to the cable.

There are 3 figures, 3 tables and 8 references, of which 7 are Soviet and 1 English.

SUBMITTED: March 31, 1959

Card 7/7

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652020011-3 是一个人,但是他们的一个人,但是他们的一个人,他们也是一个人,他们也是一个人,他们也是一个人,他们也是一个人,他们也是一个人,他们也是一个人,他们也是一个人,他

s/106/60/000/005/008/009 A055/A133

AUTHOR:

Sokolov, S. A.

Subterranean communication cables struck by lightning. Influence

TITLE:

of the radioactivity of the ground

PERIODICAL: Elektrosvyaz', no. 5, 1960, 71 It was supposed that the ionization of the air by the radioactive substances contained in the ground would facilitate the process of discharge of atmospheric electricity, and that the lightning would therefore strike, in the great majority of cases, the points with increased radioactivity. Laboratory TEXT: experiments carried out for the construction of lightning arresters with radioactive cartridges strengthened this hypothesis. To check it under natural conditions, the TsNIIS laboratory chose a trunk-line that had been often damaged by lightning (the cable had been struck 3 to 4 times per thunderstorm-season).

Measurements of the radioactivity of the ground were effected within a zone 195 km long. Recording tests were made at least every 500 m. The radiometer used for these tests allowed to record the radioactivity in any point of the followed track, even in water. The obtained results did not reveal any relationship

Card 1/2

CIA-RDP86-00513R001652020011-3" **APPROVED FOR RELEASE: 08/25/2000**

MIKHAYLOV, M.I., doktor tekhn.nauk; SOKOLOV, S.A.

Methods for lowering the cost of the protection of underground communication cables from overvoltage caused by lightning.

Vest. sviazi 21 no.5:11-12 My '61. (MIRA 14:6)

1. Nachal'nik laboratorii TSentral'nogo nauchno-issledovatel'skogo instituta svyazi (for Mikhaylov). 2. Starshiy inzhener laboratorii TSentral'nogo nauchno-issledovatel'skogo instituta svyazi (for Sokolov).

(Electric lines—Underground)
(Lightning protection)

MEKHAYLOV, M.I., doktor tekhn.nauk; SOKOLOV, S.A., insh.

Damage of a telephone cable network resulting due to single-phase short-circuiting of a 110 kv. power transmission line. Elek. sta.

33 no.8:58-59 Ag '62. (MIRA 15:8)

(Telephone lines) (Electric power distribution)

(Electric lines-Underground)

ALTSHIR, H.F.; BUNDYREV, V.V.; SOKOLOV, S.A.; MASLOV, I.A.

Device for automatic selection of ferrite cores. Neuch.-tekh. sbor. Cos. izd-va lit. v obl. atom. nauki i tekh. no.67:22-128 (MIRA 17:8)

EWT(m)/EWA(d)/EWP(k)/EWP(z)/EWP(b)/EWA(h)/EWA(c) JD/HW AP5024975 SOURCE CODE: UR/0286/65/000/016/0039/0039 5193-66 ACC NR: INVENTOR: Sokolov, S. A.; Donde, L. I.; Nikolayev, V. P.; Rakhman, L. Ts. ORG: none TITLE: Method of manufacturing thin-wall, spring-steel shapes. Class 18, No. 173789 SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 16, 1965, 39 TOPIC TAGS: spring, steel spring, thin wall spring, shaped spring ABSTRACT: This Author Certificate introduces a method of manufacturing thim-wall, spring-steel shapes. In order to obtain precise form and prescribed mechanical properties, the spring strip is heated above the AC3 point, cooled to 300-320C, drawn through forming dies at this temperature, wrapped with a narrow steel band, air cooled, cut in pieces, tempered, put on the mandrel, wrapped in glass cloth, and retempered. [WW] SUB CODE: MM/ SUBM DATE: 26Ju162/ ORIG REF: 000/ 000/ OTH REF: Card 1/1 UDC: 621.785.79 - 272.272

L 3943-66

ACCESSION NR: AP5018029

UR/0106/65/000/007/0063/0070 621.315.213.015:621.395.511

AUTHOR: Novoselov, A. S.; Sokolov, S. A.

TITLE: Voltages arising during lightning strokes in symmetrical cables at

SOURCE: Elektrosvyaz', no. 7, 1965, 63-70

TOPIC TAGS: repeater station, surge voltage

ABSTRACT: The surge-voltage height and duration in an underground metal-sheath cable depends on the distance to the point of lightning discharge, lightning-current height and shape, earth resistivity, and cable construction. Formulas for the sheath-conductor and conductor-conductor voltage surges are derived. Lightning strokes were simulated by current impulses derived from a 50-ky surge generator capable of developing currents up to 20 ka. The impulses were applied at distances of 100, 750, 1400 m from a repeater station between the cable and a

Card 1/2

L 3943-66

ACCESSION NR: AP5018029

ground electrode buried at 100 m from the cable; impulse heights used were 1.5-10 ka; the measured sheath-conductor surge voltages were 0.42-95 v. It is found that, with a sound cable, the induced surges are not hazardous; they may reach hazardous values if one of the cable conductors is faulty (broken or grounded). However, in the latter case, the equipment is adequately protected by an R-4 lightning arrester. Orig. art. has: 6 figures, 9 formulas, and 2 tables.

ASSOCIATION: none

SUBMITTED: 28Dec64 ENCL: 00 SUB CODE: EC

NO REF SOV: 003

OTHER: 003

MIKHAYLOV, M.I.; SOKOLOV, S.A.

Levering of the costs of the protection systems of cable lines from direct lightning strokes. Flektrosviaz' 19 no.6:66-69
Je '55.

(MIRA 18:6)

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Scholov, S. A.

Sokolov, S. A. - "Complex utilization of peat massifs," In symposium:
Torf v nar. khoz-ve Belorus. SSR, Minsk, 1948, p. 121-29

So: U-3566, 15 march 53, (Letopis 'Zhurnal 'nykh Statey, No. 13, 1949)

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                   Editor: Home
                  Ei.-in-Chief: Goldavskiv, E. M.,
Or. of Technical Sciences
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Ourd 2/2

Most Title: That Land OF ablantage of

Series: Accomplishments of Soviet Cinema Technique

Text Data

Coverage: The book is the fourth in the series "Accomplishments of Soviet Cinema Technique" and describes the basic methods of taking colored notion sictures. The technique for black-white photography was given in the three previous books. A description of the combined and special types of production now adopted in Soviet cinema studies and the technique of cinema stage settings will be published in one of the following issues. of the series.

Gall No.: AF5.16504

The brok primarily describes the lighting equipment, lenses and deflectors, electric power units for light effects, and arrangements for color-photographic balances of different intensities. The book also cives orief data on: apparatus for normal and synchronic methods of taking pictures; narrow and broad films; tripeds of various types; controlling method and mechanisms in cinematographic apparatuses.

Purpose: General information for wide circle of specialists in motion mictures. Facilities: Scientific Research Institute for Motion Fictures and Photography (N.T.K.F.I.); cinema-studios in Moscow and Leningrad regions.

No. Bussian References: None

Available: A.I.D., Library of Congress

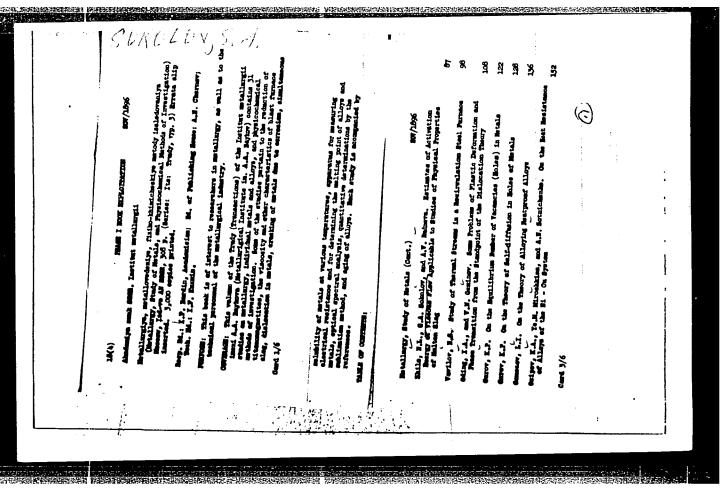
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	<u>chrore Intodici</u> Do. 77, 1956	d

SCHOLOV, S. \$.

SOKOICV, S. A. "The Effect of Radiation Disease on the Healing of Wounds in Experimental Animals." Leningrad State Order of Lenin Inst for the Advanced Training of Physicians. Third Surgical Chair. Chair of Medical Radiology. Leningrad, 1956. (Dissertation for the Degree of Candidate in Medical Science)

So: Knizhnaya Letopis', No. 19, 1956.

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652020011-3



CIA-RDP86-00513R001652020011-3 "APPROVED FOR RELEASE: 08/25/2000

SOKOLOV, S. A.

47-58-2-12/30

Zimin, A.V., Radziyevskiy, V.V. and Sokolov, S.A. AUTHORS:

Device for Determining the Ephemerides of an Earth Satellite (Pribor dlya opredeleniya efemeridy sputnika) TIPLE:

PERIODICAL: Fizika v Shkole, 1958, Nr 2, pp 59 - 61 (USSR)

This device consists of globe with its axle fixed in a box which contains the activating mechanism. The angle of inclina-ABSTRACT: tion of the earth axis is equal to the angle of inclination of the sputnik's orbit to the equator. On the vertical plane, the orbit of the sputnik is fixed with a bent wire. This wire turns around the earth with the help of a handle and cog system. There is 1 figure.

ASSOCIATION: Pedagogicheskiy Institut, Gor'kiy (The Pedagogical Institute Gor'kiy)

AVAILABLE: Library of Congress

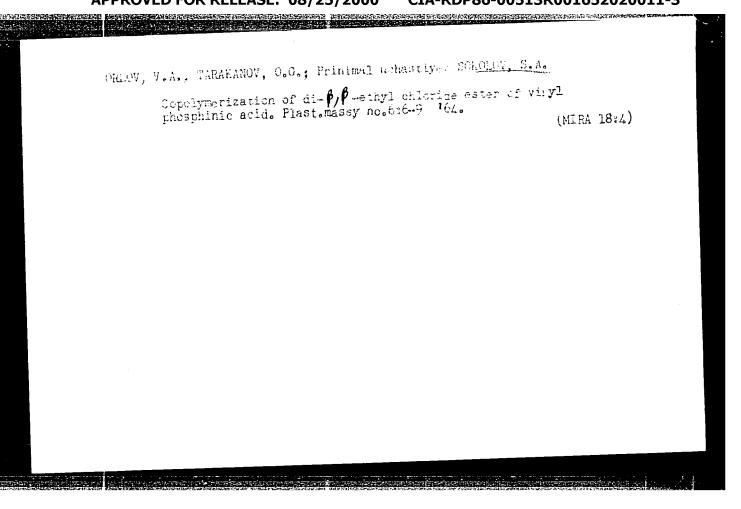
1. Satellite vehicle trajectories-Determination 2. Satellite Card 1/1 vehicle models-USSR

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CHARLES INVESTIGATED A SECTION OF A SECTION

REYNOV, Mikhail Naumovich; BREGMAN, Vladimir Il'ich; SHTUMPF, V.M., kand. tekhn. nauk, retsenzent; SOKOLOV, S.A., kand. tekhn. nauk, retsenzent; DORMIDONTOV, F.K., otv. red.; FRUMKIN, P.S., tekhn. red.

[Engineering calculations on an electronic computer] Inzhenernye raschety na elektronnom vychislitele. Leningrad, Gos.soiuznoe izd-vo sudostroit. promyshl., 1961. 130 p. (MIRA 14:6) (Electronic calculating machines)



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SOKOLOV. Sergey Aleksandrovich: ROZANOV, N.S., kandidat sel'skokhozyaystvennykh nauk, redaktor; GNIPPA, A.V., redaktor; BALLOD, A.I., tekhnicheskiy redaktor.

[Winning and using peat in agriculture] Dobycha i primenenie torfa v sel'skom khoziaistve. Moskva, Gos.izd-vo sel'khoz.lit-ry,1956.

(MIRA 10:6)

(Peat industry)

SOKOLOV, S. A. Cand Tech Sci -- (diss) "The Research and Straight of the Equipment and Systems of the Remote Control of Lighting Devices Motion Picture Filming." Mos, 1956.

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(PLANTS,

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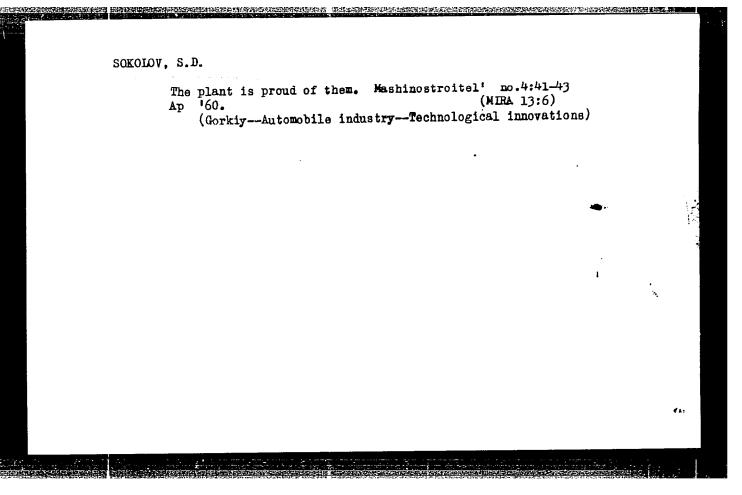
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SOV/79-29-8-24/81

AUTHORS:

Kochetkov, N. K., Nifant'yev, E. Ye., Sokolov, S. D.

TITLE:

Synthesis of Aromatic β -Ketoacetals

PERIODICAL:

Zhurnal obshchey khimii, 1959, Vol 29, Nr 8, pp 2570-2575

(USSR)

ABSTRACT:

The β -ketoacetals which are mainly obtained from the corresponding β -chloro-vinyl ketones (Ref 1) are recently of manifold use in organic synthesis, whereas compounds of this class with aromatic radicals have nearly escaped notice (Refs 2-5). Quite recently, the authors synthesized the ethylene acetal of the benzoyl-acetaldehyde (Ref 6). Presently, they carried out the synthesis of various aryl- β -ketoacetals using, as initial products, the acyl- β -chloro-vinyl ketones which are now well accessible (Ref 7). Three new representatives of this class, the o-tolyl- and m-tolyl- β -chloro-vinyl ketone, and the n-bromo-phenyl- β -chloro-vinyl ketone, were synthesized. On the first attempts to obtain the acetal of benzoyl-acetaldehyde according to reference 1, the phenyl- β -methoxy-vinyl ketone (II) was formed instead of the expected compound. This was due to

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was formed instead of the expected compound. This was due the catalytic action of alkali traces left over in the re-

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Synthesis of Aromatic β -Ketoacetals

action. Therefore, the reaction conditions were altered in such a way that in the distillation any traces of alkali were excluded by treating the reaction mixture with water, and extracting with ether. Thus the acetal of the benzoyl-acetaldehyde (III) resulted in a 60% yield. More convenient are the ethylene acetals of the β -ketoaldehydes which were recently synthesized by the authors (Ref 6). From among the representatives of the aromatic series, only the ethylene acetal of the benzoyl-acetaldehyde (IV) is described in publications. The fact that the cyclic ethylene acetals, which can easily be obtained by reaction of β -chloro-vinyl ketones with ethylene glycol, are formed by treating both the dimethyl acetals and the alkoxy-vinyl ketones with ethylene glycol in the presence of alkali, indicates their considerably higher stability. All transformations described, which are connected with the investigation of the stability of the acetals of the benzoylacetaldehyde, are illustrated in scheme 1. KOH and K2CO3 (Ref 6) proved to be the agents most useful for condensing the ethylene acetals of the β -ketoaldehydes of the aliphatic series. The operational method devised for the synthesis of the first member of the series was further applied to the syn-

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SOV/79-29-8-24/81

DESIGNATION OF THE PROPERTY OF

Synthesis of Aromatic β -Ketoacetals

thesis of the ethylene acetals of the $\beta\text{--ketoaldehydes}$ substituted in the aromatic nucleus, using KOH and $K_2^{\ CO}_3$ as con-

densing agents (60-80% yield):

 $Arco-CH=CHC1 \longrightarrow Arco-CH₂-C \begin{vmatrix} 0-CH₂ \\ 0-CH₂ \end{vmatrix}$

where Ar = n,m,o-CH₃C₆H₅; n,o-ClC₆H₄; n-BrC₆H₄; n-CH₃o-C₆H₄. The resultant crystalline acetals are stable, in general well soluble, and do not color with ferric chloride. There are 1 table and 14 references, 6 of which are Soviet.

ASSOCIATION:

Moskovskiy gosudarstvennyy universitet (Moscow State University)

SUBMITTED:

July 3, 1958

Card 3/3

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Vest. Akad. Nauk SSSR. No. 4, Moscow, 1963, pages 119-145